



SAFETY DATA SHEET

ORCA GLUE

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Product :

Sheet : Version: 4

Date: 2002-08-16
Cancel and replace: 2001-12-04

1 - PRODUCT AND COMPANY IDENTIFICATION.

Product name: ORCA Glue
Product code: 638400 / 6384100
Type of product or use: Polychloropren adhesive
Supplier: Pennel & Flipo
Country: France
Address: 384 Rue d'Alger B.P. 89 59052 Roubaix Cedex
Telephone: +33 (0)3 20 11 36 00
Telefax: +33 (0)3 20 11 36 71
Emergency telephone number(s): ORFILA (PARIS-France) +33 (0)1 45 42 59 59

2 - COMPOSITION/INFORMATION ON INGREDIENTS.

>> PREPARATION.

Chemical nature: Solvent based polychloropren adhesive.

Hazardous components:	Substance	CAS	EINECS	risk	symbol	concentration
	Ethyl acetate	141-78-6	205-500-4	R 11-36-66-67	F - Xi	15 - 25 %
	Butanone	78-93-3	201-159-0	R 11-36-66-67	F - Xi	10 - 20 %
	Light naphtha hydro treated	64742-49-0	265-151-9	R 11-38-51/53-65-67	F - Xn - N	25 - 40 %
	(*) Toluene	108-88-3	203-625-9	R 11-20	F - Xn	< 5 %

3 - HAZARDS IDENTIFICATION.

>> MAIN HAZARDS.

Health effects: Irritating to eyes and skin.
Weakly harmful.

Environmental effects: Toxic to aquatic organisms.

Physical and chemical hazards: Flammability risk of vapors.

Specific hazards: R 11 : Highly flammable.
R 36/38 : Irritating to eyes and skin.
R 51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (*)
R 67 : Vapors may cause drowsiness and dizziness.

PRODUCT CLASSIFICATION: HIGHLY FLAMMABLE + IRRITANT + DANGEROUS FOR THE ENVIRONMENT. (*)

4 - FIRST-AID MEASURES.

Information in case of:

- Inhalation: Move patient from contaminated area to fresh air.
- Skin contact: Remove any excess of product.
Wash immediately with plenty of water and soap, rinse abundantly and copiously with water.
- Eye contact: Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes.
Seek advice of an ophthalmologist.
- Ingestion: Do not induce vomiting to avoid aspiration in the respiratory tract.
Consult a doctor.
- Other information: Remove immediately any soiled or soaked clothing.

5 - FIRE-FIGHTING MEASURES.

Flash point: - 17 °C (ISO 1523).

>> EXTINGUISHING MEDIA.

- Suitable:	Carbon dioxide, dry powder extinguishers.
- Not suitable:	Water spray.
Specific hazards:	Possible formation of toxic or corrosive fumes and explosive mixtures with air.
Special protective equipment for firefighters:	Wear a self contained breathing apparatus.
Other information:	Cool the packaging in the vicinity with water spray.

6 - ACCIDENTAL RELEASE MEASURES.

Personal precautions:	Remove all ignition source - Do not smoke.
Environmental precautions:	Dam up and absorb on an inert material. Prevent product from entering drainage system.
Methods for cleaning-up:	
- Recovery:	Cover with sand or sawdust; sweep or shovel up.
- Disposal:	Collect residues in a labeled container.

7 - HANDLING AND STORAGE.

>> HANDLING.

Technical measures/precautions:	Provide water supplies near the point of use.
Occupational exposure prevention:	Ensure adequate aeration. Control atmosphere and regularly check. Neither smoke, nor drink nor eat while using.
Prevention of fire and explosion:	Keep away from all sources of ignition - Do not smoke. Take precautionary measures against static discharges. Use explosion-proof equipment. Avoid accumulation of vapors; they are heavier than air.
Other precautions :	Avoid all contact with skin and eyes. Do not breathe vapors. Do not ingest.

>> STORAGE.

Storage conditions :	
- Recommended:	Store in a well ventilated area away from the cold and the heat (5 - 30 °C). Keep containers hermetically sealed before and after use. The floor of the storage area should be impermeable and contained within a bund.
- To avoid:	Static discharges.

>> PACKAGING MATERIAL.

- Recommended:	Original packaging (tin plated).
Other information:	Avoid any re-packing.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION.

Protective measures :	Provide for fresh air intake and/or adequate air extraction in plants.
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>> CONTROL PARAMETERS.

Exposure limits:	See heading 15.
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>> PERSONAL PROTECTION EQUIPMENT.

In case of risks of exposition:

- Respiratory protection:	Ventilate work stations; if insufficient ventilation wear a mask.
- Hand protection:	Wear gloves if using for long periods.

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- Eye protection: Glasses if projection risks.
- Specific hygiene measures: Remove immediately soaked or soiled clothing. Wash separately.
Wash immediately any affected parts of the body.
- Other information: Avoid contact with skin and eyes, and breathing any vapors.

9 - PHYSICAL AND CHEMICAL PROPERTIES.

>> APPEARANCE.

- Physical state: Liquid.
- Form: Viscous.
- Color: Clear.
- Odor: Petroleum solvent odor.
- >> pH : Not applicable.

>> TEMPERATURE CHARACTERISTICS.

- Boiling point/range: 60 °C (1013 mBar).
- Flash point: - 17 °C (ISO 1523).
- Explosive properties: Forms explosive mixtures with air.
Explosive limits in air:
1.1 - 11.5 % by volume (extreme values for solvents).

>> OTHER DATA.

- Vapor pressure: (*) < 110 kPa at 50 °C.
- Density: Around 860 kg/m³ at 23 °C.
- Solubility:
- . In water: Insoluble and not miscible.
 - . In organic solvents: Dilutable in esters and ketones.

10 - STABILITY AND REACTIVITY.

- Stability: Stable at normal temperature of storage, handling and use.
- Hazardous reactions:
- Conditions to avoid: Sparks, flames, ignition points and static electricity.
 - Hazardous decomposition products: Carbon oxides, chlorine and hydrochloric acid.

11 - TOXICOLOGICAL INFORMATION.

>> ACUTE TOXICITY.

- Inhalation: Presence of toluene, harmful in its pure state.
- Ingestion: Risk of severe pulmonary problems in case of accidental aspiration.

>> LOCAL EFFECTS.

- Inhalation: Vapors may cause drowsiness and dizziness.
- Skin contact: Irritating.
Repeated exposure may cause skin dryness or cracking.
- Eye contact: Irritating.

>> OTHER DATA. See INRS Toxicological Data Sheets:
 Nbr. 14 (Butanone).
 Nbr. 18 (Ethyl acetate).
 Nbr. 74 (Toluene).
 Nbr. 96 (Special petroleum).

12 - ECOLOGICAL INFORMATION.

Ecotoxicity : Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. (*)
 Do not release into natural watercourses or the environment.

13 - DISPOSAL CONSIDERATIONS.

>> PRODUCT OR RESIDUES.

Waste disposal: Leave to harden.
 Incinerate at approved waste disposal sites only. (*)
 Contains chlorinated compounds.

>> CONTAMINATED PACKAGING.

Suitable disposal: Dispose of an approved waste disposal site only.

Local regulations: Comply with local regulations.

14 - TRANSPORTATION INFORMATION.

>> INTERNATIONAL REGULATIONS.

UN: 1133 class: 3 packing: III label: 3
 MENTION: ADHESIVE containing FLAMMABLE LIQUID
 VISCOUS according to 2.2.3.1.4 (physical properties: see heading 9).
 UN label packing class danger

ADR/RID: Hazardous Identification N°: 33

IMO-IMDG: EMS : 3-05 not marine pollutant

OACI-IATA: IATA passenger : quantity package < 60 l instruction : 309
 IATA cargo: quantity package < 220 l instruction: 310

15 - REGULATORY INFORMATION.

>> EC REGULATIONS.

Conforms:
 Directive "Dangerous substances" 67/548/EEC amended (Directive 2001/59/EC - 28th ATP). (*)
 Directive "Dangerous preparations" 1999/45/EC modified. (*)
 Directive "Safety data sheets" 2001/58/EC. (*)

- Symbol(s): F - Xi - N: Highly flammable - Irritant - Dangerous for the environment. (*)

- R Phrase(s): R 11 : Highly flammable.
 R 36/38 : Irritating to eyes and skin.
 R 51/53 : Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. (*)
 R 67: Vapors may cause drowsiness and dizziness.

- S Phrase(s): S 9 : Keep container in a well-ventilated place.
 S 16 : Keep away from sources of ignition - No smoking.
 S 23 : Do not breathe vapor. (*)
 S 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (*)
 S 33 : Take precautionary measures against static discharges.
 S 51 : Use only in well-ventilated areas.

>> FRENCH REGULATION.

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- Do not exceed threshold limit value:
 - Hydrocarbons: 300 ppm.
 - French Threshold Limit Value (VME):
 - Ethyl acetate : 400 ppm or 1400 mg/m3 air.
 - Butanone : 200 ppm or 600 mg/m3 air.
 - Toluene : 100 ppm or 375 mg/m3 air.
 - Classified installations: Concerned.
 - Other information: Comply with local regulations.
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16 - OTHER INFORMATION.

- Recommended uses: Contact glue.
- Other information: To use with appropriate curing agent.
- R Phrases: (*)
 - R 20 : Harmful by inhalation.
 - R 36 : Irritating to eyes.
 - R 38 : Irritating to skin.
 - R 65 : Harmful : May cause lung damage if swallowed.
 - R 66 : Repeated exposure may cause skin dryness or cracking.

>> The (*) indicate the changes made with respect to the previous version.

NOTE.

THIS SAFETY DATA SHEET COMPLIES WITH INTERNATIONAL STANDARD ISO 11014-1.

The information provided is based upon our best knowledge at the time that this safety data sheet was published. The information is believed to be accurate and is given in all good faith. The

Attention of users is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it is recommended. In such cases the user should make a complete reassessment.

This safety data sheet should only be used and reproduced in order that the necessary measures may be taken relating to the protection of health and safety at work and relating to the protection of

The environment. The references to the legislative, regulatory and codes of practice documents must not be considered as exhaustive.

It is the responsibility of handlers of the product to pass on the totality of the information contained within this documents to any subsequent persons who will come into contact with, handle or use the product in any way.

End of document.

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